Work Orde July-13-12 1:47		87346		*873	346*							Page	1
Item ID: Revision ID: Item Name:	D412-74	42-041 nent Float Skidtube		Accept	*N900	<b>040</b>	100	)*	Setup	Start Stop		S1* S2*	
Start Date: Required Date: Reference:	7/10/12 8/31/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						•	
Approvals:	Process QC:	s Plan: MLJ	Date: 17 07	<b>\</b> ∕OTooling: SPC (Y/N):		ate:			Run	Start Stop	*N  *N	R1* R2*	
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp	
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If D412-742-041 is a W/O on it's own, Photocopy bluefile and create labels per PPP D412-742-041 CHG005

Memo

Document Control

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						Use-as-is	]	Thern	noforming	Finishing	Rec/Sto	re/Packaging	Other
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		Cuffs	•			Contamination		Mainte	•		Part Moved	_	_ ~
		Heat Trea	at			Countersink		Mislabe	eled		Positioned \	Wrong	
		Inspection	n Strip in	Tube		Cut Too Short		Misread	d		Power Loss,	/Surge	Other
		Ripples in	Bend			Drill Holes		Offset		<del></del>			<u> </u>
		Torque W	/aves in l	xtrusio	n	Drawing		Out of	Calibration				
		Turning S	equence			Finish		Out of	Sequence				2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °

Outside Dimensions

Wave/Twist in Tube

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

120

\*120\*

Quality Control

QC

Memo

MEK degreaser.

QC5- Inspect part completeness to step on W/O

A/RLPS Procyon A/ 11 4 596

16 7 lulin

											DQA:	Date	à: _	
NCR: Y	es/	/ No				<b>WORK ORDER NON-C</b>	10:	VFORM	MANCE / UPD/	ATE				
											QA Closed:	Date	2:	
Work Orde	or.	_				DISPOSITION				AGAINST DEI	PARTMENT	/PROCESS		
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NCR N	10.					Work Order Update			Large Fab	Composite		Supplier		
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		Cracks				Broken/Damaged	L	Inspecti	on Incomplete		Part Incorre	ct		Weld
		Crushed/	Crimped.			Burrs		Instruct	ions Incomplete/Un	ıclear	Part Lost/M	issing		Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved			
		Heat Trea	it			Countersink		Mislabe	eled .		Positioned \	Wrong _		
		Inspection	n Strip in	Tube		Cut Too Short		Misread	d		Power Loss,	'Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

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Work Ord		7346		*87	346*						Page 3
Item ID: Revision ID:	D412-742-			Accept	*N900	<b>040</b>	100	)*	Setup	Start Stop	14.21
Item Name:	Replacemen	t Float Skidtube								Бюр	*NS2*
Start Date: Required Dat Reference:	7/10/12 e: 8/31/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Approvals:	Process P	lan:	Date:	Tooling:	De	ate:	-		Run	Start	*NR1*
Approvais.		iaii	Date:	SPC (Y/N):		ate:				Stop	*NR2*
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accep Qty	ot Re Qt	-	Reject Insp. Number Stamp
*130*		Packaging		0.00	PPP.						3111324
Packaging Packaging		Location:	pack for shipping as per	0.00 PPP D412-742-041	Alollo						
140		QC21- Final Inspection	- Work Order Release	0.00						<b>/</b>	11/10/10
*140* QC Quality Control		Memo		0.00						10	MK

12-11-15

			DQA:	Date:	
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE	<del></del>		- 2
			QA Closed:	Date:	

									QA Closed:	Date:	
Work Orde	r:				DISPOSITION		10.5				
					Rework		Skid-tube	Crosstube		Water Jet	Engineering
Part N	Ο.				Scrap		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
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NCR N	0.				Work Order Update	,,,,,	Large Fab	Composite	1100,000	Supplier	
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Cause	Date	Step	Qty	(	or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
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Process					4 4						
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Landin	g Gear				General						
	Bending				Bend	Grain			Ovalized		Pressure/Forced
	Centre No	ot Concer	ntric to	o/s	BOM/Route	Hardw	are		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspec	tion Incomplete		Part Incorred	ct	Weld
	Crushed/0	Crimped.			Burrs	Instruc	tions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination	Maint	enance		Part Moved		
	Heat Trea	it			Countersink	Mislab	eled		Positioned V	Vrong	
	Inspection	n Strip in	Tube		Cut Too Short	Misrea	d		Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes	Offset					
	Torque W	aves in E	xtrusio	n 🗍	Drawing	Out of	Calibration				
	Turning S	equence			Finish	Out of	Sequence				
	Wave/Tw	ist in Tub	e		Folio	Outsid	e Dimensions				

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## **Picklist Print**

July-13-12 1:47:04 PM

Work Order ID:

87346

Parent Item:

D412-742-041

Parent Item Name:

Replacement Float Skidtube

**Start Date:** 7/10/12

Required Date: 8/31/12

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev A 05.10.13 New Issue KJ/JLM

IPP Rev 06.02.13 ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

EC JLM

IPP rev D 07.11.01 ecn 1053p

EC

IPP rev E 07.11.27 ecn 1072

EC verified by:DD

IPP Rev:F 08-09-08 ecn 08-510 DD verified by:EC

IPP Rev:G 10.02.24 as per ECN10-

67

2978

514 DD verified by: EC IPP Rev:H 11.11.01 as per DSI9517 REV.B DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Parch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure		Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3391-011 Fwd Tube Assembly	and my	Manufactured	No			110	Each	0.0000	38-	1434	(x)	1 11	lulog
D3391-013 Mid Tube Assembly	), ',	Manufactured	No			110	Each	0.0000	38	1184(	x1) 4	1 11	uloq
D3391-015 Aft Tube Assembly	M. L. S. V.	Manufactured	No			110	Each	0.0000	38=	1602	(x1) )	<u>U (()</u>	11/09
AN3C4A BOLT	). 10	Purchased	No			110	Each	3,150.0000	}	24	11/1	رر	
4.				Location		Loc Qty	Lo	oc Code					
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				120 120: 120:	521	31 28 38	X/\ (	22814		<b>Ø</b>			

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				i							QA (	Closed:	Da	ate:	
Work Ord	0.51					DISPOSITION				AGAINST DE	PART	MENT,	/PROCESS		
work Ora	er.			-		Rework			Skid-tube	Crosstube			Water Jet	. 🦳	Engineering
Part I	No.					Scrap		i .	Machining	Small Fab		Pro	d. Eng. Coor.	$\vdash$	Quality
					<del></del>	Use-as-is			noforming	Finishing	R		re/Packaging	-	Other
NCR	No.					Work Order Update			Large Fab	Composite			Supplier		
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Process.							İ							:	
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Landi	ing (	Gear				General	_				,			_	•
	L	Bending				Bend		Grain			Oval	lized			Pressure/Forced
		Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	re		Ove	r/Under	tolerance	L	Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part	Incorre	ct	L	Weld
		Crushed/	Crimped.			Burrs		Instruct	ions Incomplete/U	Inclear	Part	Lost/M	issing		Wrong Stock Pulled
		Cuffs				Contamination		] Mainte	nance		Part	Moved			_
		Heat Trea	it			Countersink		Mislabe	led		Posi	tioned \	<b>N</b> rong	_	_
		Inspection	n Strip in	Tube		Cut Too Short		Misread	i		Pow	er Loss/	/Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

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July-13-12 1:47:05 PM

Work Order ID:	87346									
Parent Item:	D412-742-041						Start D	Date: 7/10/12	Red	uired Date: 8/31/12
Parent Item Name:	Replacement Float Skidtube						Start (	<b>Qty:</b> 1.00	Re	quired Qty: 1.00
<b>AN3C6A</b> BOLT	Purcha	sed No			110	Each	251.0000	10 H	10	12/11/09
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OLT										12/11/09
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				116169	1				-	
				117313	10					
				117619	12				_	
				117688	6				_	
				119749	1				_	
				120731	8				_	
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				121541	2					
				122141	100			Xul		

NCR:	Yes / N	0	WORK ORDER NON-CONFORMANCE / UPDATE

	DQA:	Date:	
	QA Closed:	Date:	
E	PARTMENT	PROCESS	
	4 - 1 1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
	Sign & Date	Verification	QC Inspector

		-								10.000	QA Closea.					
Work Order:						DISPOSITION		AGAINST DEPARTMENT/PROCESS								
						Rework	7	Skid-tube Crosstube				Water Jet	Engineering			
Part N	No.					Scrap	1	1	Machining	Small Fab	Pro	d. Eng. Coor.	Quality			
	-	-				Use-as-is	1	Thermoforming Finishing			Rec/Store/Packaging		Other			
NCR N	No.					Work Order Update	11		Large Fab	Composite		Supplier				
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Root					Descri	ption of work order update	In	itial	Act	tion	Sign &	*	* .			
Cause		Date	Step	Qty	(	or Non-conformance	Chie	ef Eng	Desci	ription	Date	Verification	QC Inspector			
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Landi	ng G	iear				General				_		-				
	Ш	Bending				Bend	Ш	Grain			Ovalized	Pressure/Forced				
		Centre No	ot Concer	ntric to	o/s	BOM/Route	Ш	Hardwa	ire		Over/Under	tolerance	Temperature/Cure			
	Ш	Cracks				Broken/Damaged		nspect	ion Incomplete		Part Incorre	Part Incorrect Weld				
	Ш	Crushed/	Crimped.			Burrs	_		tions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled			
	Cuffs					Contamination		Mainte	enance		Part Moved					
	Heat Treat					Countersink		Mislabe	eled		Positioned V	Vrong				
	Inspection Strip in Tube			Cut Too Short		Misread	t		Power Loss/	'Surge	Other					
	Ripples in Bend			Drill Holes		Offset										
		Torque W	aves in E	xtrusio	n 🗌	Drawing		Out of (	Calibration							
		Turning S	equence			Finish		Out of Sequence								
	Wave/Twist in Tube					Folio		Outside Dimensions								

July-13-12 1:47:05 PM

Work Order ID:	87346									
Parent Item:	D412-742-041						Start D	ate: 7/1	0/12	Required Date: 8/31/12
Parent Item Name:	Replacement Float	Skidtube					Start (	<b>Qty:</b> 1.0	0	Required Qty: 1.00
AN960C10L washer 🕌	NAS1149C0332R	Purchased	No		110	Each	21.0000	38	)U 38	· ululoq
r			<u>L</u>	ocation	Loc Oty		Loc Code			
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<b>MS27039C4-12</b> SCREW		Purchased	No		110	Each	11.0000	4	H) 4	11/11/09
		,	L	ocation	Loc Qty		Loc Code			
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D3672-3 Phenolic Washer		Manufactured	No		110	Each	1,211.0000	4	Hl 4	ululog
			L	ocation	Loc Qty		Loc Code			
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	15 1149 CO 43	Purchased	No		110		1255	4 (xy)	Jel 4	nlulos
D4095-041		Manufactured	No		110	Each	9.0000	1	થા 1	
Wearplate Assembly								-	20	(11 (10)
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				83809	7					
				85616	2			_		
D4095-043		Manufactured	No		110	Each	16.0000	1	$\mathcal{H}^{1}$	a + b + a
Wearplate Assembly		•						æ		-4-4-10-4
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Nork Orde	· ·					DISPOSITION		AGAINST DEPARTMENT/PROCESS								
WOIK OIU	٤١.				<del></del>	Rework	1	=	Skid-tube Crosstube	۔ ا		Water Jet	Engineering	$\neg$ $I$		
Part N	Jo.					Scrap	1		Machining Small Fal	$\vdash$	Pro	d. Eng. Coor.	Quality	$\dashv$ [		
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Root		_	_			ption of work order update		nitial	Action		Sign &					
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		Centre Not Concentric to O/S			o/s	BOM/Route		Hardwa			Over/Under	· · · · · · · · · · · · · · · · · · ·	Temperature/C	ure		
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	Crushed/Crimped.				-	Burrs Contamination	$\vdash$	Mainte	tions Incomplete/Unclear		Part Lost/Mi Part Moved	issing [	Wrong Stock Pu	illea		
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	H			Tube		Cut Too Short	$\vdash$	Misread			Power Loss/		Other			
	Inspection Strip in Tube Ripples in Bend					Drill Holes	-	Offset	•		. 54461 2055/	[	Toure.			
		Torque W		xtrusio	n 📙	Drawing			Calibration	•						
		Turning S				Finish		4	Sequence	-						
		Wave/Tw				Folio	Outside Dimensions									

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July-13-12 1:47:05 PM

Work Order ID:

87346

Parent Item:

D412-742-041

Parent Item Name:

Wearplate Assembly

Replacement Float Skidtube

D4095-045

Manufactured

No

**Start Date: 7/10/12** 

13.0000

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

<u>Location</u>	Loc Qty	Loc Code	
FP001	13	1386244	
77737	1		
84081	4		
85614	8		

Each

110

											DQA:	Date	
NCR:	Yes	/ No				WORK ORDER NON-C	ON	IFOR					
_						<b>.</b>					QA Closed:	Date	:
Work Ord	or.					DISPOSITION	١			PARTMENT	/PROCESS		
Part No						Rework Scrap Use-as-is Work Order Update	Machining Small Fab Thermoforming Finishing			-∤	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other	
Root		·			Descri	ption of work order update	lr	nitial	Act	ion	Sign &		
Cause		Date	Step	Qty	(	or Non-conformance	Chi	ef Eng	Descr	iption	Date	Verification	QC Inspector
Doc/Data	Ш												
Equip/Tooling	Ш												
Operator													
Material												:	
Setup					:								
Other													
Process	П												
Supplier	П										1		
Training													
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	Cracks					Broken/Damaged		Inspect	ion Incomplete		Part Incorre	ct	Weld
	Crushed/Crimped.					Burrs		Instruct	tions Incomplete/L	Jnclear	Part Lost/M	issing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved	<u></u>	_
	Heat Treat					Countersink		Mislabe	eled		Positioned \	<b>N</b> rong	

Misread

Out of Calibration

Out of Sequence

**Outside Dimensions** 

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

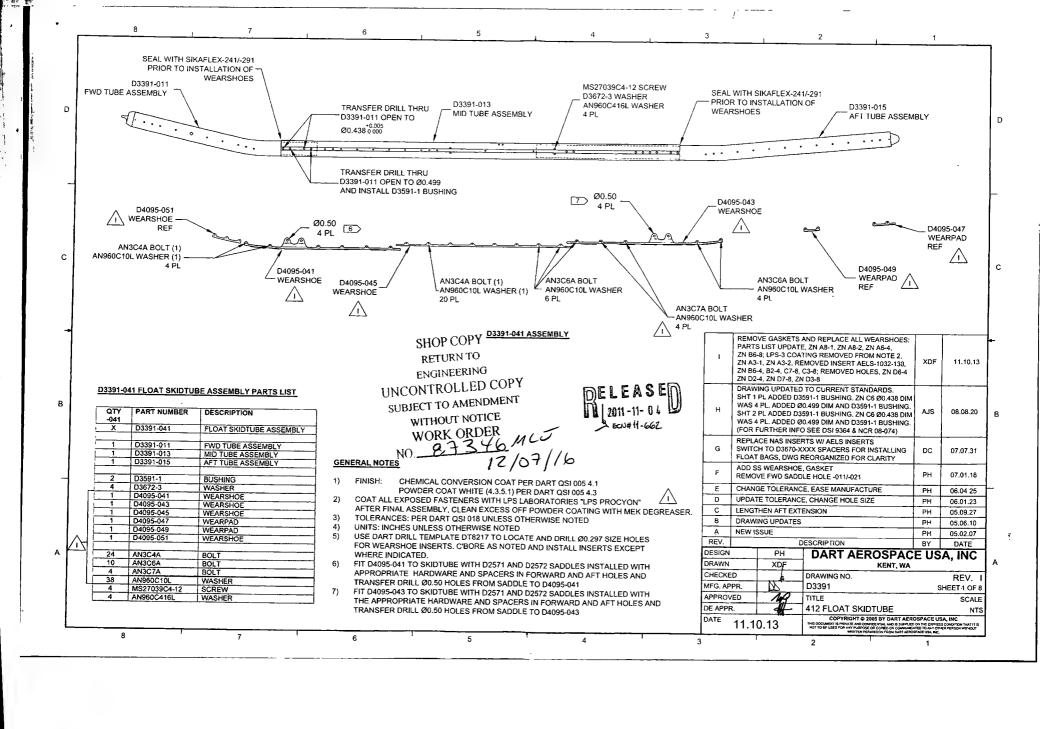
Cut Too Short

Drill Holes

Drawing

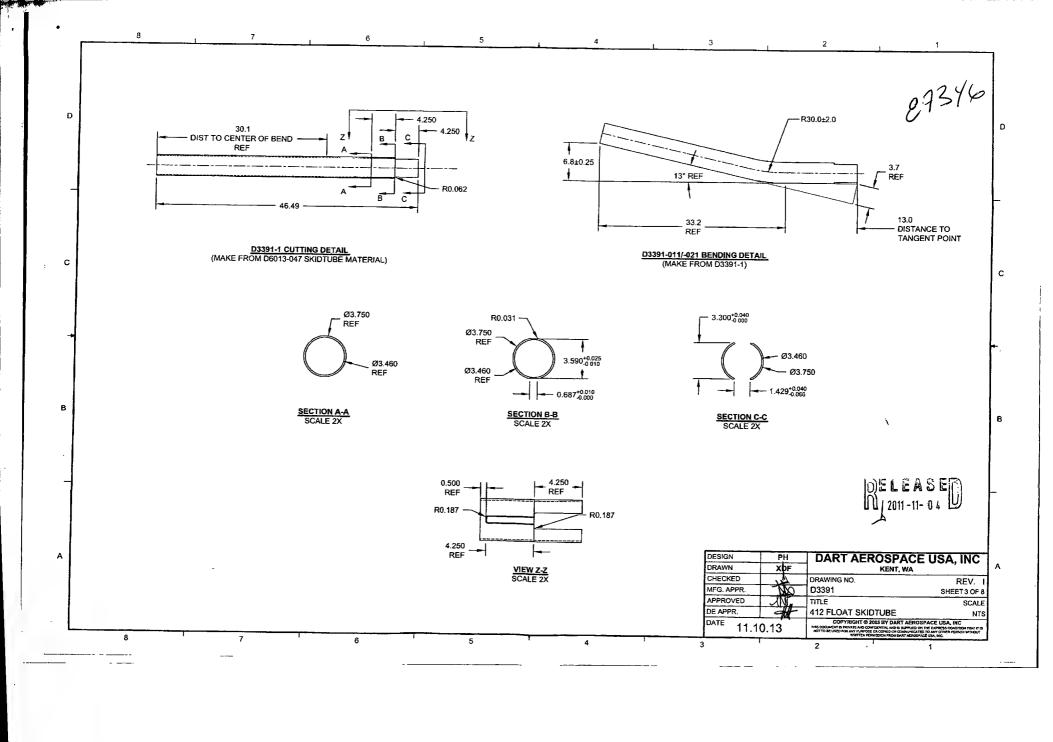
Finish

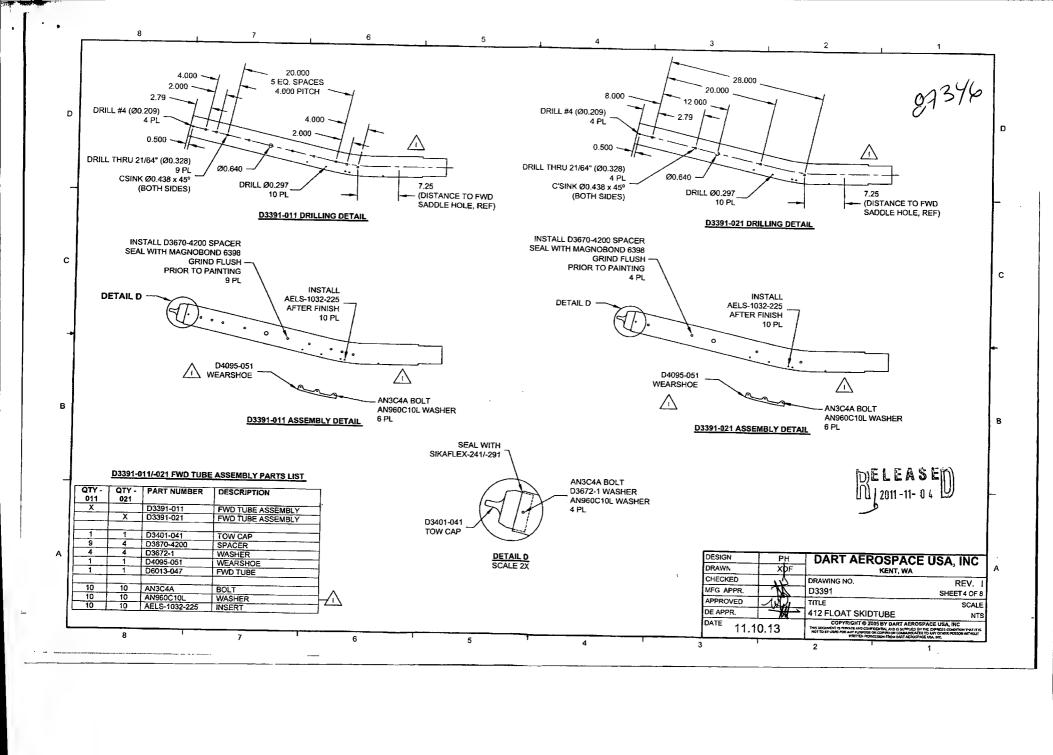
H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

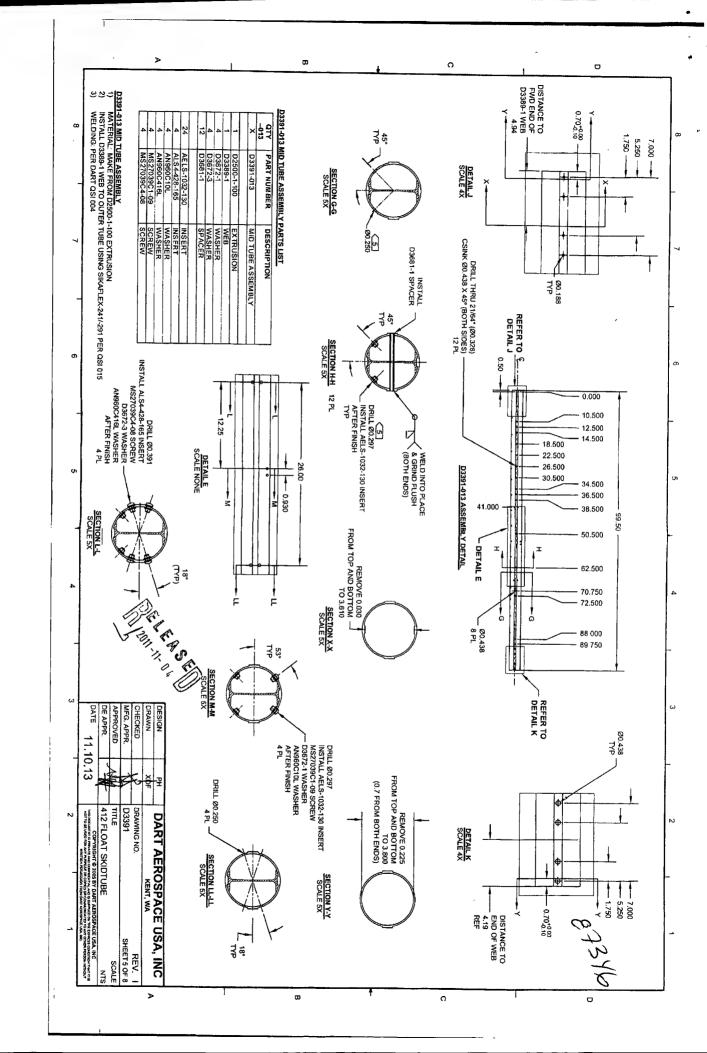


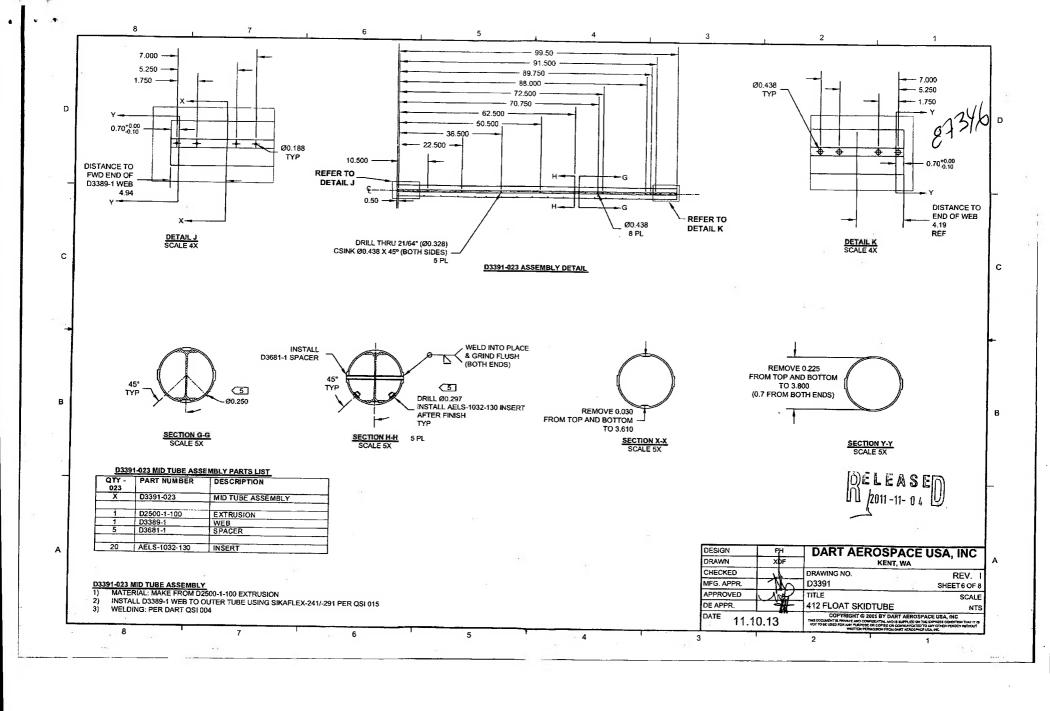
5 D SEAL WITH SIKAFLEX-241/-291 PRIOR TO INSTALLATION OF -WEARSHOES D3391-021\_ FWD TUBE ASSEMBLY SEAL WITH SIKAFLEX-241/-291 PRIOR TO INSTALLATION OF D3391-023 TRANSFER DRILL THRU D3391-025 WEARSHOES MID TUBE ASSEMBLY D3391-021 OPEN TO AFT TUBE ASSEMBLY Ø0.438-0 000 TRANSFER DRILL THRU С D3391-021 OPEN TO Ø0.499 C AND INSTALL D3591-1 BUSHING D4095-051 Ø0.50 7 Ø0.50 6 /I\ WEARSHOE D4095-047 REF 4 PL WEARPAD REF AN3C4A BOLT D4095-043 AN960C10L WASHER  $\triangle$ WEARSHOE / D4095-041 D4095-049 4 PI WEARSHOE WEARPAD AN3C6A BOLT AN3C6A BOLT D4095-045 REF AN3C4A BOLT AN960C10L WASHER AN960C10L WASHER WEARSHOE 4 PL AN960C10L WASHER 6 PL AN3C7A BOLT AN960C10L WASHER R 4 PI D3391-043 ASSEMBLY D3391-043 FLOAT SKIDTUBE ASSEMBLY PARTS LIST **GENERAL NOTES** QTY PART NUMBER DESCRIPTION CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 FINISH: POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3 D3391-043 FLOAT SKIDTUBE ASSEMBLY COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER. FWD TUBE ASSEMBLY MID TUBE ASSEMBLY AFT TUBE ASSEMBLY D3391-021 D3391-023 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED D3391-025 4) UNITS: INCHES UNLESS OTHERWISE NOTED USE DART DRILL TEMPLATE DT8217 TO LOCATE AND DRILL Ø0.297 SIZE HOLES BUSHING FOR WEARSHOE INSERTS. C'BORE AS NOTED AND INSTALL INSERTS EXCEPT D4095-041 D4095-043 WEARSHOE WHERE INDICATED. WEARSHOE FIT D4095-041 TO SKIDTUBE WITH D2571 AND D2572 SADDLES INSTALLED WITH D4095-045 WEARSHOE APPROPRIATE HARDWARE AND SPACERS IN FORWARD AND AFT HOLES AND D4095-047 WEARPAD DESIGN DART AEROSPACE USA, INC D4095-049 D4095-051 TRANSFER DRILL Ø0.50 HOLES FROM SADDLE TO D4095-041 WEARPAD DRAWN XDF WEARSHOE FIT D4095-043 TO SKIDTUBE WITH D2571 AND D2572 SADDLES INSTALLED WITH CHECKED THE APPROPRIATE HARDWARE AND SPACERS IN FORWARD AND AFT HOLES AND DRAWING NO. REV. I AN3C4A MFG. APPR. D3391 TRANSFER DRILL Ø0.50 HOLES FROM SADDLE TO D4095-043 SHEET 2 OF 8 AN3C6A BOLT APPROVED AN3C7A TITLE SCALE AN960C10 WASHER DE APPR. 412 FLOAT SKIDTUBE NTS COPYRIGHT © 2005 BY DART AEROSPACE USA, INC DATE 11.10.13

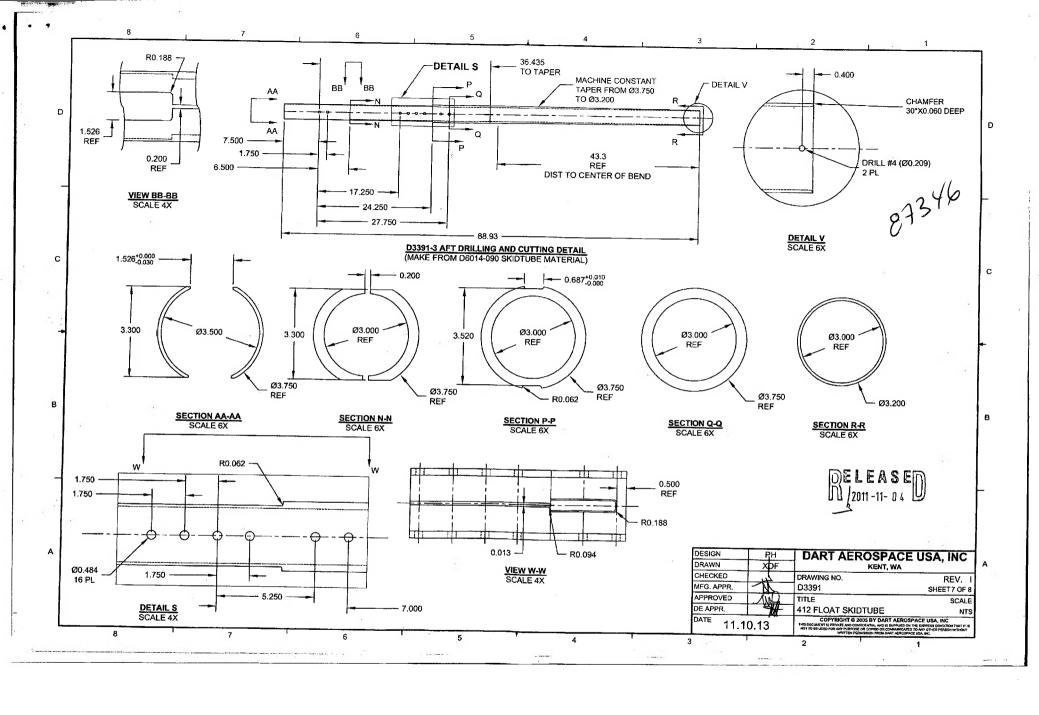
3

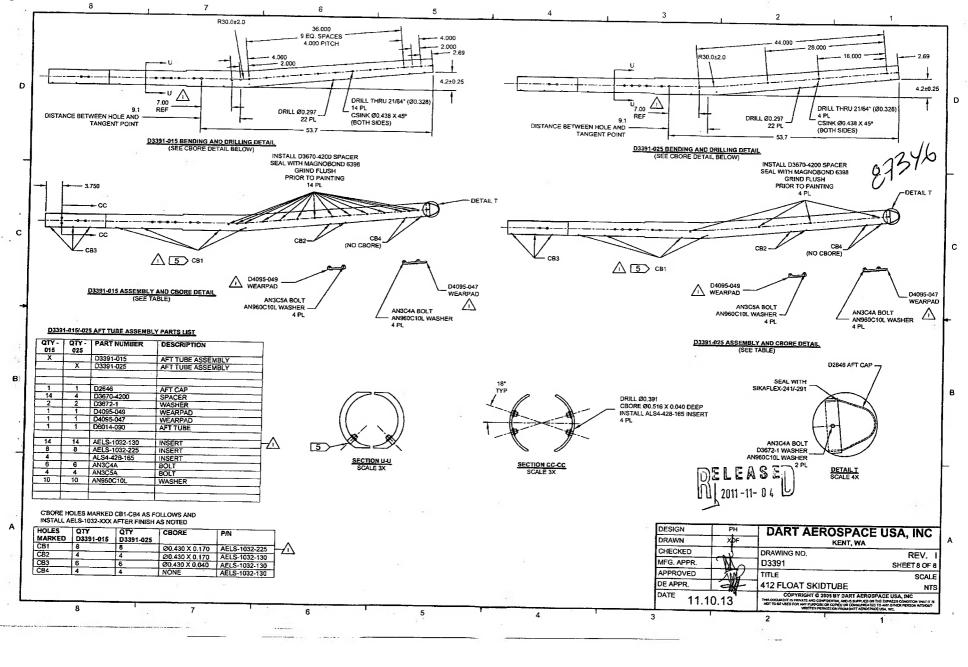












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